

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 218583	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 02/ 26907	International filing date (day/month/year) 23/08/2002	(Earliest) Priority Date (day/month/year) 24/08/2001
Applicant NEOPHARM, INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.
☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :
- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☒ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the title,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established by this Authority to read as follows:

**LEYDIG, VOTT & MAYER
RECEIVED**

FEB 19 2003

PAT/TA Due 02/03

None

5. With regard to the abstract,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

- ☐ as suggested by the applicant.
- ☐ because the applicant failed to suggest a figure.
- ☐ because this figure better characterizes the invention.

☒ **None of the figures.**

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/26907

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/475 A61P35/00 A61K9/127 A61K45/00 //(A61K45/00,
31:475)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, EMBASE, BIOSIS, CHEM ABS Data, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 952 408 A (RAHMAN AQUILUR) 28 August 1990 (1990-08-28) column 2, line 65 -column 2, line 69; claims 1-11 column 1, line 32,33 column 1, line 66-68 column 4, paragraphs 2,3 column 6, line 41-43 ---	1-32,37
Y	US 5 424 073 A (RAHMAN AQUILUR ET AL) 13 June 1995 (1995-06-13) column 4, paragraph 5 -column 5, paragraph 1; claims 1-17; examples 1-4 column 5, paragraph 2 column 3, line 38-61 column 2, line 54 - line 68 --- -/--	1-32,37



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

29 January 2003

Date of mailing of the international search report

17/02/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Ansaldo, M

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/26907

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 00 01366 A (NEOPHARM ;RAHMAN AQUILAR (US)) 13 January 2000 (2000-01-13) the whole document ---	1-27,37
Y	WATERHOUSE D N ET AL: "A comparison of liposomal formulations of doxorubicin with drug administered in free form: changing toxicity profiles." DRUG SAFETY: AN INTERNATIONAL JOURNAL OF MEDICAL TOXICOLOGY AND DRUG EXPERIENCE. NEW ZEALAND 2001, vol. 24, no. 12, 2001, pages 903-920, XP009004841 ISSN: 0114-5916 page 911, column 1, paragraph 3; table III page 913, column 2, paragraph 3 ---	1-27,37
P,Y	WO 02 32400 A (AHMAD IMRAN ;NEOPHARM INC (US); RAHMAN AQUILUR (US)) 25 April 2002 (2002-04-25) the whole document -----	1-27,37

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 02/26907

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 1-12, 37 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 02/26907

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4952408	A	28-08-1990	AT 103172 T	15-04-1994
			AU 625308 B2	09-07-1992
			AU 3742489 A	12-12-1989
			CA 1339077 A1	29-07-1997
			DE 68914154 D1	28-04-1994
			DE 68914154 T2	20-10-1994
			DK 279890 A	23-11-1990
			EP 0416014 A1	13-03-1991
			IE 64513 B1	09-08-1995
			JP 3504381 T	26-09-1991
			WO 8911292 A1	30-11-1989
US 5424073	A	13-06-1995	US 5648090 A	15-07-1997
			AT 194767 T	15-08-2000
			AU 3922193 A	21-10-1993
			CA 2132711 A1	30-09-1993
			DE 69329073 D1	24-08-2000
			DE 69329073 T2	18-01-2001
			DK 706373 T3	18-09-2000
			EP 0706373 A1	17-04-1996
			ES 2148223 T3	16-10-2000
			GR 3034024 T3	30-11-2000
			PT 706373 T	30-11-2000
			WO 9318751 A1	30-09-1993
WO 0001366	A	13-01-2000	US 6146659 A	14-11-2000
			AU 730599 B2	08-03-2001
			AU 5088099 A	24-01-2000
			BR 9906581 A	26-09-2000
			CA 2301057 A1	13-01-2000
			CN 1275076 T	29-11-2000
			EP 1009384 A1	21-06-2000
			HU 0004583 A2	28-08-2001
			JP 2001524990 T	04-12-2001
			NO 20001012 A	15-03-2000
			PL 338951 A1	04-12-2000
			SK 4642000 A3	07-11-2000
			TR 200000576 T1	21-11-2000
			WO 0001366 A1	13-01-2000
WO 0232400	A	25-04-2002	AU 1464902 A	29-04-2002
			WO 0232400 A1	25-04-2002